

REPORT

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the germanium is moved through melting zones without being put into a [REDACTED] being exposed to container impurities. ~~This~~ zone melting procedure, however, had not [REDACTED] transmitter for the induction heating [REDACTED] 1954 and was undergoing repairs.

3. The Dralowid team ~~also~~ also completed an installation for the application of the Czochralsky method² for the purification of germanium. The first results obtained were germanium monocrystals of 10 centimeter length with a diameter of 5 millimeters. These crystals, however, did not have straight shapes but were rather uneven in ~~diameter~~ diameter. The ~~degree of purity~~ degree of purity did not exceed the degree of purity of the best samples obtained through the application of the Bridgeman method. The experiments with the Czochralsky installation were to be continued as soon as the transmitter for induction heating (a 3.5 kw Lorenz ~~Gluehaender~~) was repaired. It is hoped that through improvement of the present Czochralsky installation more homogeneous crystals can be obtained than through application of the Bridgeman method. The highest purity obtained with the Bridgeman method is ~~only to be found well inside the germanium crystal, whereas its outer layers have varying degrees of impurities.~~
4. Production of point-contact germanium ~~transistors~~ in early 1955. The Dralowid plant [REDACTED] the State Planning Commission that [REDACTED] able.
5. No essential progress had been made as yet by Falter's team in the development of junction-type germanium transistors³. The plan for this development provided that it should be completed by the end of 1955.

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